

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2003 - Dec 31, 2003**

***Presented Published***

## ***ABSTRACT/ORAL***

Miller, T.A., and Schaefer, F.W. Characterization of a mouse model of immunosuppression using a single dose of methylprednisolone acetate. Presented at: Society of Comparative Endocrinology, Asheville, NC, June 1-4, 2003. 6/1/2003

**Contact:** Frank W. Schaefer

Schaefer, III, F.W. The establishment of laboratory guidelines for analysis of bioterrorism samples. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

**Contact:** Frank W. Schaefer

Schaefer, III, F.W. Approaches to inactivation and federal regulations. Presented at: Workshop on Transport and Disposal of Wastes from Facilities Contaminated with Chemical and Biological Agents, Cincinnati, OH, May 28-30, 2003. 5/28/2003

**Contact:** Frank W. Schaefer

Fout, G.S. Detection by PCR of human enteric viruses concentrated from large volumes of water. Presented at: EPA Workshop for Development of Protocols for Reliable Genetic Methods for Viruses for Use in EPA's Drinking Water Program, Cincinnati, OH, January 15-16, 2003. 1/15/2003

**Contact:** G. Shay Fout

Cashdollar, J.L., Parshionikar, S., Newport, C., William-True, S., Dahling, D.R., and Fout, G.S. Methods used to analyze a norovirus outbreak. Presented at: USEPA's Research on Microorganisms in Drinking Water, Cincinnati, OH, August 5-7, 2003. 8/5/2003

**Contact:** Jennifer Cashdollar

Fout, G.S. The key viral players. Presented at: EPA Workshop for Development of Protocols for Reliable Genetic Methods for Viruses for Use in EPA's Drinking Water Program, Cincinnati, OH, January 15-16, 2003. 1/15/2003

**Contact:** G. Shay Fout

Ware, M.W., Schaefer, III, F.W., Rice, E.W., and Hayes, S.L. Inactivation of giardia muris by low pressure ultraviolet light. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

**Contact:** Michael W. Ware

Miller, T.A., and Schaefer, F.W. Changes in mouse circulating t-lymphocyte numbers during a normal cryptosporidium muris infection and after a single injection of methylprednisolone acetate. Presented at: Experimental Biology Meeting, San Diego, CA, April 11-15, 2003. 4/11/2003

**Contact:** Frank W. Schaefer

Grimm, A.C., Fout, G.S., Cashdollar, J.L., and Williams, F.P. Development of a molecular method to detect astrovirus. Presented at: American Society for Virology Annual Meeting, Davis, CA, July 12-16, 2003. 7/12/2003

**Contact:** G. Shay Fout

Grimm, A.C., Cashdollar, J.L., Williams, F.P., and Fout, G.S. Development of a molecular method to identify astrovirus in water. Presented at: USEPA Microorganisms in Drinking Water Workshop, Cincinnati, OH, August 5-7, 2003. 8/5/2003

**Contact:** Ann C. Grimm

Fout, G.S. EPA methods for virus detection in water. Presented at: University of Surrey - Site Visit, Guildford, UK, March 28, 2003. 3/28/2003

**Contact:** G. Shay Fout

# ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2003 - Dec 31, 2003**

***Presented   Published***

Schaefer, III, F.W. The establishment of laboratory guidelines for analysis of bioterrorism samples. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:*** Frank W. Schaefer

Fout, G.S. The application of emerging technologies to virus detection in water. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:*** G. Shay Fout

Ware, M.W., Schaefer, III, F.W., Hayes, S.L., and Rice, E.W. Inactivation of *Giardia muris* by low pressure ultraviolet light. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:*** Michael W. Ware

Fout, G.S., Grimm, A.C., Dahling, D.R., Cashdollar, J.L., Newport, C., Parshionikar, S., and William-True, S. Rapid virus detection in water. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:*** G. Shay Fout

Grimm, A.C., Cashdollar, J.L., Williams, F.P., and Fout, G.S. Development of a molecular method to identify astrovirus in water.. Presented at: Science and Mission Club, Cincinnati, OH, June 4, 2003. 6/4/2003

***Contact:*** Ann C. Grimm

Shoemaker, J.A., and Glassmeyer, S. The application of mass spectrometry to the study of microorganisms. Presented at: U.S. EPA's Research on Microorganisms in Drinking Water Workshop, Cincinnati, OH, August 5-7, 2003. 8/5/2003

***Contact:*** Jody A. Shoemaker

Parks, A.N., Gallagher, P.A., Schwegel, C.A., Ackerman, A.H., and Creed, J.T. An investigation of arsenic mobility from iron oxide solids produced during drinking water treatment. Presented at: 2003 Pittsburgh Conference, Orlando, FL, March 9-14, 2003. 3/9/2003

***Contact:*** John T. Creed

Creed, J.T., Gallagher, P.A., and Schwegel, C.A. Are all arsenic exposures toxic? Supporting regional risk assessments through improved arsenic speciation methodology. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:*** John T. Creed

Bernard, C.E., Morgan, J.N., and Melnyk, L.J. Detection of toxicant(s) on building surfaces following chemical attack. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:*** Craig E. Bernard

Furlong, E.T., Ferrer, I., Glassmeyer, S., Cahill, J.D., Zaugg, S.D., Werner, S.L., Kolpin, D.W., and Kryak, D.D. Distribution of organic wastewater contaminants between water and sediment in surface waters of the United States. Presented at: National Groundwater Association 3rd International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, Minneapolis, MN, March 19-21, 2003. 3/19/2003

***Contact:*** Susan Glassmeyer

# ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2003 - Dec 31, 2003**

***Presented Published***

Glassmeyer, S., Ferrer, I., Furlong, E.T., Cahill, J.D., Zaugg, S.D., Werner, S.L., Kolpin, D.W., and Kryak, D.D. Transport of chemical and microbial contaminants from known wastewater discharges. Presented at: National Groundwater Association 3rd International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, Minneapolis, MN, March 19-21, 2003.

3/19/2003

***Contact:*** Susan Glassmeyer

Parks, A.N., Gallagher, P.A., Schwegel, C.A., Ackerman, A.H., and Creed, J.T. The liberation of arsenosugars from matrix components in difficult to extract seafood samples utilizing TMAOH/acetic acid sequentially in a two-stage extraction process. Presented at: 2003 European Winter Conference on Plasma Spectrochemistry, Garmisch-Partenkirchen, Germany, January 12-17, 2003.

1/12/2003

***Contact:*** John T. Creed

Gallagher, P.A., Evans, O.M., Parks, A.N., Schwegel, C.A., Ackerman, A.H., Creed, J.T., and Wilbur, S. Speciation of non-pesticidal organotin compounds using gas chromatography with inductively coupled plasma-mass spectrometry. Presented at: 2003 European Winter Conference on Plasma Spectrochemistry, Garmisch-Partenkirchen, Germany, January 12-17, 2003.

1/12/2003

***Contact:*** John T. Creed

Ackerman, A.H., Gallagher, P.A., Parks, A.N., Schwegel, C.A., Creed, J.T., Heitkemper, D.T., and Vela, N. A mass balance approach to determine arsenic absorption rates from contaminated water by rice during the food preparation process. Presented at: 2003 European Winter Conference on Plasma Spectrochemistry, Garmisch-Partenkirchen, Germany, January 12-17, 2003.

1/12/2003

***Contact:*** John T. Creed

Shoemaker, J.A. The application of mass spectrometry to protein analysis. Presented at: NHEERL Presentation on Proteomics, Research Triangle Park, NC, July 22, 2003.

7/22/2003

***Contact:*** Jody A. Shoemaker

Glassmeyer, S., Keltz, C.A., and Santo Domingo, J. Fingerprinting of fecal enterococci by matrix assisted laser desorption ionization mass spectrometry. Presented at: American Society of Microbiology, Washington, DC, May 18-22, 2003.

5/18/2003

***Contact:*** Susan Glassmeyer

Donohue, M.J., Shoemaker, J.A., Selgrade, M.J., Ward, M.D.W., and Copeland, L.B. Proteomic analysis of allergens from *metarhizium anisopliae*. Presented at: 51st ASMS Conference, Montreal, Canada, June 8-12, 2003.

6/8/2003

***Contact:*** Jody A. Shoemaker

Hedrick, E.J., Slingsby, R., Munch, D.J., and Hautman, D.P. Low-level determination of perchlorate in drinking water using ion chromatography mass spectrometry. Presented at: 51st ASMS Conference, Montreal, Canada, June 8-12, 2003.

6/8/2003

***Contact:*** Elizabeth Hedrick

Munch, J.W. Developing analytical methods for gathering nationwide occurrence data for chemicals on the Drinking Water Contaminant Candidate List (CCL). Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003.

5/5/2003

***Contact:*** Jean W. Munch

Bernard, C.E., Morgan, J.N., and Melnyk, L.J. Detection of toxicant(s) on building surfaces following chemical attack. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003.

5/5/2003

***Contact:*** Craig E. Bernard

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2003 - Dec 31, 2003**

***Presented   Published***

Shoemaker, J.A., Talley, J.M., Dahling, D.R., and Fout, G.S. The discovery of biomarkers of viral infectivity by mass spectrometry. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:*** Jody A. Shoemaker

Creed, J.T. Are all arsenic exposures toxic? Supporting regional risk assessments through improved arsenic speciation methodology. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:*** John T. Creed

Shoemaker, J.A., Talley, J.M., Dahling, D.R., and Fout, G.S. The discovery of biomarkers of viral infectivity by mass spectrometry. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:*** Jody A. Shoemaker

Bernard, C.E., Melnyk, L.J., and Berry, Jr., M.R. Transfer efficiencies of household pesticides from surfaces to foods. Presented at: 40th Annual AFDOSS Florida Pesticide Residue Workshop, St. Petersburg, FL, July 20-23, 2003. 7/20/2003

***Contact:*** Craig E. Bernard

Morgan, J.N., Hieber, T., Kauffman, P., and Brisbin, J. Determination of pesticides in comosite diets using large volume pressurized fluid extraction with in-line sample preparation. Presented at: 40th Annual AFDOSS Florida Pesticide Residue Workshop, St. Petersburg, FL, July 20-23, 2003. 7/20/2003

***Contact:*** Jeffrey N. Morgan

Hedrick, E.J. Methods development to improve low-level perchlorate detection in drinking water by conductivity and mass spectrometry - issues and impact. Presented at: Severn Trent 4th annual Analytical Program Compliance, Louisville, KY, June 17-18, 2003. 6/17/2003

***Contact:*** Elizabeth Hedrick

Glassmeyer, S., Ferrer, I., Furlong, E.T., Cahill, J.D., Zaugg, S.D., Werner, S.L., Meyer, M., Kolpin, D.W., and Kryak, D.D. Transport of chemical and microbial contaminants from known wastewater discharges: potential chemical indicators of human fecal contamination. Presented at: U.S. EPA's Research on Microorganisms in Drinking Water Workshop, Cincinnati, OH, August 5-7, 2003. 8/5/2003

***Contact:*** Susan Glassmeyer

Budde, W.L., and Maizels, M. Investigatoin of cyanobacteria toxins in water. Presented at: Annual Conference of the American Society for Mass Spectrometry, Montreal, CA, June 8-13, 2003. 6/8/2003

***Contact:*** William L. Budde

Martinson, J., Lewis, D., Brenner, K., Wymer, L., and Brown, S. Information management and related quality assurance for a large scale, multi-site research project. Presented at: The U.S. EPA 20th Annual Conference on Managing Environmental Quality Systems: "Quality Management Solutions for Today's Environmental Challenges, New Orleans, LA, April 14-17, 2003. 4/14/2003

***Contact:*** John W. Martinson

Rodgers, M.R., Vesper, S.J., Haugland, R.A., and Lye, D.J. The good, the bad and the ugly - determination of bacterial virulence using animal models and microarray technology. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:*** Mark R. Rodgers

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2003 - Dec 31, 2003**

***Presented    Published***

Haugland, R.A., and Vesper, S.J. New laboratory methods - DNA immunology. Presented at: Expert Indoor Mycology Workshop, Asilomar, CA, July 31, 2003. 7/31/2003

***Contact:***    Richard A. Haugland

Haugland, R.A., Brenner, K.P., Dufour, A.P., and Sieftring, S.D. The need for speed - rapid methodologies to determine bathing beach water quality. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:***    Richard A. Haugland

Rodgers, M.R., and Smallwood, A.W. Sensitivity of different aeromonas species to copper and silver. Presented at: American Society for Microbiology, Washington, DC, May 18-22, 2003. 5/18/2003

***Contact:***    Mark R. Rodgers

Haugland, R.A. Rapid measurement of bacterial fecal indicators in surface waters by quantitative polymerase chain reaction (QPCR) analysis. Presented at: Rapid Microbiological Measurement Method Workshop, Monterey, CA, May 14-16, 2003. 5/14/2003

***Contact:***    Richard A. Haugland

Birkenhauer, J.M., and Rodgers, M.R. Identification and characterization of Aeromonas isolates from drinking water distribution systems. Presented at: American Society for Microbiology, Washington, DC, May 18-22, 2003. 5/18/2003

***Contact:***    Mark R. Rodgers

McDaniels, A.E., Rice, E.W., Tally, R.A., Wymer, L.J., and Stelma, Jr., G.N. A comparison of three assay procedures for determining chlorine inactivation of waterborne pathogenic bacteria. Presented at: 103rd General Meeting American Society for Microbiology, Washington, DC, May 18-22, 2003. 5/18/2003

***Contact:***    Audrey E. McDaniels

Haugland, R.A. The need for speed-rapid methodologies to determine bathing beach water quality. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:***    Richard A. Haugland

Brenner, K. Environmental monitoring for public access and community tracking (EMPACT) program microbiological monitoring of recreational water. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:***    Kristen P. Brenner

Rodgers, M.R., Vesper, S.J., and Lye, D. The good, the bad and the ugly - determination of bacterial virulence using animal models and microarray technology. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:***    Mark R. Rodgers

Vesper, S.J. A revolution in mold identification and enumeration. Presented at: Building Environment Council of Ohio Spring Conference, Columbus, OH, April 10, 2003. 4/10/2003

***Contact:***    Stephen J. Vesper

Brenner, K.P., Dufour, A.P., and Wymer, L.J. Environmental monitoring for public access and community tracking (EMPACT) program microbiological monitoring of recreational water. Presented at: Science Forum 2003, Washington, DC, May 5-7, 2003. 5/5/2003

***Contact:***    Kristen P. Brenner

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2003 - Dec 31, 2003**

***Presented Published***

Rodgers, M.R., and Smallwood, A.W. Sensitivity of different aeromonas biotypes to copper and silver. Presented at: American Society for Microbiology, Washington, DC, May 18-22, 2003. 5/18/2003

**Contact:** Mark R. Rodgers

Birkenhauer, J.M., and Rodgers, M.R. Identification and characterization of aeromonas isolates from drinking water distribution systems. Presented at: American Society for Microbiology, Washington, DC, May 18-22, 2003. 5/18/2003

**Contact:** Mark R. Rodgers

Lye, D.J. Pathogenicity of biofilm bacteria. Presented at: USEPA's Research on Micoorganisms in Drinking Water Workshop, Cincinnati, OH, August 5-7, 2003. 8/5/2003

**Contact:** Dennis J. Lye

## ***JOURNAL***

Lindquist, H.D.A., Varma, M., Schaefer, III, F.W., Ware, M.W., and Hester, J.D. Detection of cyclospora cayetanesis using a quantitative real-time PCR assay. Journal of Microbiological Methods 53 (1):27-36 (2003). EPA/600/J-03/343. 4/1/2003

**Contact:** H. D. Alan Lindquist

Anderson, A.D., Heryford, A.G., Sarisky, J.P., Higgins, C., Monroe, S.S., Beard, S.R., Newport, C., Cashdollar, J.L., Fout, G.S., Robbins, D.E., Seys, S.A., Musgrave, K.J., Bartkus, J., Vinje, J., Bresee, J.S., Mainzer, H.M., and Glass, R. A waterborne outbreak of Norwalk-like virus among snowmobilers - Wyoming, 2001. Journal of Infectious Diseases 187 (2):303-306 (2003). EPA/600/J-03/113. 1/15/2003

**Contact:** G. Shay Fout

Hayes, S.L., Rice, E.W., Ware, M.W., and Schaefer, III, F.W. Low pressure ultraviolet studies for inactivation of Giardia muris cysts. Journal of Applied Microbiology 94 (1):54-59 (2003). EPA/600/J-03/077. 1/1/2003

**Contact:** Frank W. Schaefer

Fout, G.S., Martinson, B.C., Moyer, M.W.N., Dahling, D.R., and Wymer, L.J. A multiplex reverse transcription-PCR method for detection of human enteric viruses in groundwater. Applied and Environmental Microbiology 69 (6):3158-3164 (2003). EPA/600/J-03/319. 6/1/2003

**Contact:** G. Shay Fout

Melnyk, L.J., Morgan, J.N., Fernando, R., Akinbo, O., and Pellizzari, E.D. Determination of metals in composite diet samples by ICP-MS. Journal of AOAC International 86 (2):439-447 (2003). EPA/600/J-03/296. 3/1/2003

**Contact:** Lisa J. Melnyk

Brinkman, N., Haugland, R.A., Wymer, L.J., Muruleedhara, B., Whitman, R.L., and Vesper, S.J. Evaluation of a rapid, quantitative real-time PCR method for enumeration of pathogenic Candida cells in water. Applied and Environmental Microbiology 69 (3):1775-1782 (2003). EPA/600/J-03/300. 3/1/2003

**Contact:** Richard A. Haugland

Van Emon, J.M., Reed, A.W., Yike, I., and Vesper, S.J. ELISA Measurement of Stachylysin (TM) in serum to quantify human exposures to the indoor mold Stachybotrys chartarum. Journal of Occupational and Environmental Medicine 45 (6):582-591 (2003). EPA/600/J-03/320. 6/13/2003

**Contact:** Stephen J. Vesper

## ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2003 - Dec 31, 2003**

***Presented Published***

Vesper, S.J., Gregory, L., Dearborn, D.G., and Yike, I. Immunocytochemical localization of stachylysin in stachybotrys chartarum spores and spore-impacted mouse and rat lung tissues. Mycopathologia 156 (2):109-117 (2003).

3/1/2003

***Contact:*** Stephen J. Vesper

Yike, I., Vesper, S.J., Tomashefski, Jr., J.F., and Dearborn, D.G. Germination, viability and clearance of stachybotrys chartarum in the lungs of infant rats. Mycopathologia 156 (2):65-67 (2003).

3/1/2003

***Contact:*** Stephen J. Vesper

### ***SYMPOS/CONF***

Lye, D.J. Application of USEPA's drinking water regulations towards rainwater catchment systems. Presented at: ARCSA Conference, Austin, TX, August 21-23, 2003.

8/21/2003

***Contact:*** Dennis J. Lye

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2002 - Dec 31, 2002**

***Presented Published***

## ***ABSTRACT/ORAL***

Fayer, R., Trout, J., Sulaiman, I.M., Lal, A.A., Xiao, L., and Schaefer, F.W. The first report of Enterocytozoon bienersi parasites in wildlife: Implications for public health and transmission to livestock. Presented at: 10th International Congress of Parasitology, Vancouver, BC, August 4-9, 2002. 8/4/2002

***Contact:*** Frank W. Schaefer

Graczyk, T., Bosco-Nizeyi, J., Innocent, R. B., DaSilva, A. J., Pieniazek, N. J., Lindquist, H.D.A., and Cranfield, M. R. A single genotype of Encephalitozoon intestinalis infects free-ranging gorillas and people sharing their habitats, Uganda. Presented at: International Conference on Emerging Infectious Diseases, Atlanta, GA, March 24-27, 2002. 3/24/2002

***Contact:*** H. D. Alan Lindquist

Piche, R., Chen, R., Hoang, L., Cross, J.H., Lindquist, H.D.A., Fyfe, M.W., Champagne, S., Isacc-Renton, J.L., and Ong, C.S.L. Molecular epidemiological investigation of 2 cyclosporiasis outbreaks in Vancouver, British Columbia. Presented at: Joint meeting of the International Congress of Parasitology & Annual Meeting of the American Society of Parasitologists, Vancouver, British Columbia, Canada, August 4-10, 2002. 8/4/2002

***Contact:*** H. D. Alan Lindquist

Seys, S.A., Mainzer, H.M., Heryford, A.G., Anderson, A.D., Monroe, S.S., Fout, G.S., Sarisky, J.P., and Musgrave, K.J. Coordinating systems-based environmental public health practice with epidemiology and laboratory analysis: a waterborne outbreak of Norwalk-like virus in the Big Horn Mountains of Wyoming. Presented at: American Public Health Association Annual Meeting, Philadelphia, PA, November 9-13, 2002. 11/9/2002

***Contact:*** G. Shay Fout

Fayer, R., Santin, M., Sulaiman, I.M., Trout, J., Xunde, L., Schaefer, F.W., Xiao, L., and Lal, A.A. Animal reservoirs, vectors, and transmission of microsporidia. Presented at: American Society of Tropical Medicine and Hygiene 51st Annual Meeting, Denver, CO, November 10-14, 2002. 11/10/2002

***Contact:*** Frank W. Schaefer

Seys, S.A., Mainzer, H.M., Heryford, A.G., Anderson, A.D., Fout, G.S., Sarisky, J.P., Musgrave, V., and Musgrave, K.J. Coordinating environmental public health practice with epidemiology and laboratory analysis: A waterborne outbreak of Snow Mountain virus in the Big Horn Mountains of Wyoming. Presented at: International Conference on Emerging Infectious Diseases, Atlanta, GA, March 24-27, 2002. 3/24/2002

***Contact:*** G. Shay Fout

Ruecker, N. J., Fout, G.S., Peterson, H. G., Watson, S., Lawrence, J., Appleyard, G., and Christofi, N. The use of RT-PCR for the detection of enteric viruses in prairie surface drinking water supplies. Presented at: 37th central Canadian Symposium on Water Pollution Research, Burlington, Ontario, February 4-5, 2002. 2/4/2002

***Contact:*** G. Shay Fout

Ruecker, N. J., Lawrence, J., Peterson, H. G., Fout, G.S., Appleyard, G., and Christofi, N. The significance of enteric viruses and waterborne illness. Presented at: 10th National Conference and 1st Policy Forum on Drinking Water, Halifax, Nova Scotia, April 27-30, 2002. 4/27/2002

***Contact:*** G. Shay Fout

Lindquist, H.D.A. Emerging waterborne pathogens. Presented at: 52nd Annual KU Environmental Engineering Conference, Kansas City, KS, February 5-6, 2002. 2/5/2002

***Contact:*** H. D. Alan Lindquist

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2002 - Dec 31, 2002**

***Presented Published***

Schaefer, III, F.W. Laboratory guidelines for analysis of bioterrorism samples. Presented at: International Symposium on Waterborne Pathogens, Cascais, Lisbon, Portugal, September 22-25, 2002. 9/22/2002

***Contact:*** Frank W. Schaefer

Lindquist, H.D.A., Varma, M., Ware, M.W., Aranzamendi, C., and Vargas, C. Comparison of microscopic versus molecular diagnosis of *Cyclospora cayetanensis*. Presented at: Joint meeting of the International Congress of Parasitology and Annual Meeting of the American Society of Parasitologists, Vancouver, British Columbia, Canada, August 4-10, 2002. 8/4/2002

***Contact:*** H. D. Alan Lindquist

Lindquist, H.D.A. Special pathogens/bioterrorism capabilities within NERL microbiology. Presented at: EPA Regional Science and Technology Officers, Washington, DC, May 1, 2002. 5/1/2002

***Contact:*** H. D. Alan Lindquist

Schaefer, F.W. Method 1623 for detecting giardia and cryptosporidium. Presented at: International Symposium on Waterborne Pathogens, Cascais, Lisbon, Portugal, September 22-25, 2002. 9/22/2002

***Contact:*** Frank W. Schaefer

Schaefer, F.W. U.S. drinking water regulations for microorganisms. Presented at: International Symposium on Waterborne Pathogens, Cascais, Lisbon, Portugal, September 22-25, 2002. 9/22/2002

***Contact:*** Frank W. Schaefer

Lindquist, H.D.A. Anthrax remediation research needs. Presented at: 4th Decontamination Commodity Area Conference (DECON 2002), San Diego, CA, October 22-24, 2002. 10/22/2002

***Contact:*** H. D. Alan Lindquist

Ware, M.W., Schaefer, III, F.W., Lindquist, H.D.A., and Wymer, L.J. Cryptosporidium oocyst recovery in water by EPA method 1623: Evaluation of a modified IMS dissociation. Presented at: Ohio River Basin Consortium for Research and Education, Highland Heights, KY, November 6-7, 2002. 11/6/2002

***Contact:*** Frank W. Schaefer

Lindquist, H.D.A. The increasing need for surveillance: Water sources and environmental factors. Presented at: Symposium 30: Emerging Food- and Water-borne Protozoan Parasites. 51st Annual Meeting of the American Society of Tropical Medicine and Hygiene, Denver, CO, November 10-14, 2002. 11/10/2002

***Contact:*** H. D. Alan Lindquist

Parshionikar, S., and Fout, G.S. Development of viral internal controls for the assessment of inhibitor removal from environmental water samples.. Presented at: 21st Annual Meeting of the American Society for Virology, Salt Lake City, UT, May 19-23, 2002. 5/21/2002

***Contact:*** G. Shay Fout

Gamble, B.M., Gallagher, P.A., Shoemaker, J.A., Heck, A., Freeman, D.M., Schwegel, C.A., and Creed, J.T. Investigation of arsenosugar-substrate interactions in seafood extracted with tetramethylammonium hydroxide. Presented at: 2002 Winter Conference on Plasma Spectrochemistry, Scottsdale, AZ, January 6-12, 2002. 1/6/2002

***Contact:*** John T. Creed

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2002 - Dec 31, 2002**

***Presented   Published***

Talley, J.M., Shoemaker, J.A., and Fout, G.S. Strain differentiation and determination of Capsid proteins of Cocksackievirus by MALDI-MS. Presented at: American Society for Mass Spectrometry, Orlando, FL, June 2-6, 2002. 6/2/2002

***Contact:*** Jody A. Shoemaker

Hu, Y., Pellizzari, E.D., Akland, G.G., Melnyk, L.J., and Berry, M. Use of pharmacokinetic modeling for dietary exposure study design and model evaluation. Presented at: ISEA Annual Meeting, Vancouver, British Columbia, August 11, 2002. 8/11/2002

***Contact:*** Lisa J. Melnyk

Hu, Y., Akland, G.G., Pellizzari, E.D., Melnyk, L.J., and Berry, M. Conceptual framework for categorizing young children's eating behaviors. Presented at: ISEA Annual Meeting, Vancouver, Canada, August 11, 2002. 8/11/2002

***Contact:*** Lisa J. Melnyk

Potter, B.B., and Wimsatt, J. C. Investigation of response differences between different types of total organic carbon (TOC) analytical instrument systems. Presented at: ACS Meeting, Orlando, FL, April 11-15, 2002. 4/11/2002

***Contact:*** Billy B. Potter

Potter, B.B. Investigation of response differences between different types of total organic carbon (TOC) analytical instrument systems. Presented at: American Chemical Society Spring Meeting, Orlando, FL, April 7-11, 2002. 4/7/2002

***Contact:*** Billy B. Potter

Melnyk, L.J., Berry, Jr., M.R., Tomerlin, J.R., Barraj, L., and Gordon, S.M. Alternatives to duplicate diet methodology. Presented at: ISEA Annual Meeting, Vancouver, Canada, August 11-15, 2002. 8/11/2002

***Contact:*** Lisa J. Melnyk

Bernard, C.E., Melnyk, L.J., and Berry, Jr., M.R. Measurements of transferrable residue from ceramic tile, vinyl tile, hardwood flooring, and carpet using a press sampler and C18, PUF, and cotton sampling disks. Presented at: ISEA Annual Meeting, Vancouver, Canada, August 11, 2002. 8/11/2002

***Contact:*** Lisa J. Melnyk

Creed, J.T., Gallagher, P.A., Shoemaker, J.A., Schwegel, C.A., Gamble, B.M., and Parks, A.N. Arsenic speciation in problematic seafood matrices: the importance of a species specific mass balance. Presented at: International Conference on Arsenic Exposure and Health Effects (SEGHA), San Diego, CA, July 14-17, 2002. 7/14/2002

***Contact:*** John T. Creed

Shoemaker, J.A. Method development for Alachlor ESA and other acentanilide herbicide degradation products. Presented at: 224th American Chemical Society National Meeting, Boston, MA, August 18-22, 2002. 8/18/2002

***Contact:*** Jody A. Shoemaker

Talley, J.M., Shoemaker, J.A., Fout, G.S., and Dahling, D.R. Strain differentiation and determination of capsid proteins of coxsackievirus by MALDI-MS. Presented at: 224th American Chemical Society National Meeting, Boston, MA, August 18-22, 2002. 8/18/2002

***Contact:*** Jody A. Shoemaker

# NERL/MCEARD Publications

Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)

Jan 1, 2002 - Dec 31, 2002

*Presented Published*

Creed, J.T., Gallagher, P.A., Schwegel, C.A., Parks, A., and Gamble, B.M. EPA studies of arsenic speciation in seafood matrices with an emphasis on extractability and arsenosugar integrity. Presented at: 2002 Pittsburgh Conference, New Orleans, LA, March 17-22, 2002.

3/17/2002

**Contact:** John T. Creed

McDaniels, A.E., Covert, T.C., De La Cruz, AA, and Rodgers, M.R. Bacterial pathogenic research in response to contaminant candidate list needs. Presented at: EPA Science Forum 2002, Washington, DC, April 30-May 2, 2002.

4/30/2002

**Contact:** Mark R. Rodgers

Stelma, Jr., G.N., Lye, D.J., Smith, B.G., and Messer, J.W. Rare occurrence of heterotrophic bacteria with pathogenic potential in potable water. Presented at: Joint Workshop-National Sanitation Foundation/World Health Organization, Geneva, Switzerland, April 22-24, 2002.

4/22/2002

**Contact:** Gerard N. Stelma

Vesper, S.J., and Haugland, R.A. Rapid identification and quantification of fungi. Presented at: Science Forum 2002, Washington, DC, May 1-2, 2002.

5/1/2002

**Contact:** Stephen J. Vesper

Vesper, S.J. A revolution in mold identification and enumeration. Presented at: Aerias Symposium on Mold, Atlanta, GA, October 17, 2002.

10/17/2002

**Contact:** Stephen J. Vesper

## JOURNAL

Hester, J.D., Varma, M., Bobst, A.M., Ware, M.W., Lindquist, H.D.A., and Schaefer, F.W. Species-specific detection of three human-pathogenic microsporidial species from the genus encephalitozoon via fluorogenic 5' nuclease PCR assays. Molecular and Cellular Probes 16 (6):435-444 (2002). EPA/600/J-03/115, <http://www.idealibrary>.

12/1/2002

**Contact:** Frank W. Schaefer

Grimm, A.C., and Fout, G.S. Development of a molecular method to identify hepatitis E virus in water. Journal of Virological Methods 101 (2):175-188 (2002). EPA/600/J-03/112, [www.elsevier.com/locate/jviromet](http://www.elsevier.com/locate/jviromet).

1/1/2002

**Contact:** Ann C. Grimm

Everson, W.V., Ware, M.W., and Lindquist, H.D.A. Isolation of purified oocyst walls and sporocysts from Toxoplasma gondii. Journal of Eukaryotic Microbiology 49 (4):344-349 (2002). EPA/600/J-03/114.

7/1/2002

**Contact:** H. D. Alan Lindquist

Gamble, B.M., Gallagher, P.A., Shoemaker, J.A., Wei, X., Schwegel, C.A., and Creed, J.T. An investigation of the chemical stability of arsenosugars in simulated gastric juice and acidic environments using IC-ICP-MS and IC-ESI-MS/MS. Analyst 127 (6):781-785 (2002). EPA/600/J-03/096, [www.rsc.org/analyst](http://www.rsc.org/analyst).

4/23/2002

**Contact:** John T. Creed

Shoemaker, J.A. Novel chromatographic separation and carbon solid phase extraction of acetanilide herbicide degradation products. Journal of AOAC International 85 (6):1331-1337 (2002). EPA/600/J-03/295.

11/1/2002

**Contact:** Jody A. Shoemaker

## ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2002 - Dec 31, 2002**

***Presented Published***

Gallagher, P.A., Creed, J.T., Schwegel, C.A., Murray, S., and Wei, X. An evaluation of sample dispersion medias used with accelerated solvent extraction for the extraction and recovery of arsenicals from LFB and DORM-2. *Journal of Analytical Atomic Spectrometry* 17 (6):581-586 (2002). [www.rsc.org/jaas](http://www.rsc.org/jaas).

***Contact:*** Patricia Gallagher

5/27/2002

Morgan, J.N., Rosenblum, L., and Garris, S. Comparison of five extraction methods for determining incurred and fortified pesticides in dietary composites. *Journal of AOAC International* 85 (5):1167-1176 (2002). EPA/600/J-03/104.

***Contact:*** Jeffrey N. Morgan

9/1/2002

Wymer, L.J., and Dufour, A.P. A model for estimating the incidence of swimming-related gastrointestinal illness as a function of water quality indicators. *Environmetrics* 13 (5-6):669-678 (2002). EPA/600/J-03/106.

***Contact:*** Larry J. Wymer

9/30/2002

Roe, J.D., Haugland, R.A., Vesper, S.J., and Wymer, L.J. Quantification of stachybotrys chartarum conidia in indoor dust using real time, fluorescent probe-based detection of PCR products. *Journal of Exposure Analysis and Environmental Epidemiology* 11 (1):12-20 (2002). EPA/600/J-03/101, [www.nature.com/jea](http://www.nature.com/jea).

***Contact:*** Richard A. Haugland

2/27/2002

Vesper, S.J., and Vesper, M. J. Stachylysin may be cause of hemorrhaging in stachybotrys chartarum exposures. *Infection and Immunity* 70 (4):2065-2069 (2002). EPA/600/J-03/299.

***Contact:*** Stephen J. Vesper

4/1/2002

Haugland, R.A., Brinkman, N., and Vesper, S.J. Evaluation of rapid DNA extraction procedures for the quantitative detection of fungal cells using real time PCR analysis. *Journal of Microbiological Methods* 50 (3):319-323 (2002). EPA/600/J-03/301, [www.elsevier.com/locate/jmicmeth](http://www.elsevier.com/locate/jmicmeth).

***Contact:*** Richard A. Haugland

8/1/2002

Li, D., Yang, C.S., Haugland, R.A., and Vesper, S.J. A new species of Memnoniella. *Mycotaxon* 85:253-257 (2002). EPA/600/J-03/297.

***Contact:*** Stephen J. Vesper

1/4/2002

Viana, M.E., Selgrade, M.K., Vesper, S.J., and Ward, M.D.W. An extract of Stachybotrys chartarum causes allergic responses in a BALB/c mouse model: I. Biochemical and pathological responses. *Toxicological Sciences* 70 (1):98-109 (2002). EPA/600/J-03/103.

***Contact:*** Stephen J. Vesper

12/1/2002

Lye, D.J. Health risks associated with consumption of untreated water from household roof catchment systems. *Journal of the American Water Resources Association* 38 (5):1301-1306 (2002).

***Contact:*** Dennis J. Lye

10/1/2002

### ***SYMPOS/CONF***

Marshall, M.M., Hoffman, B., Moffett, J., Jost, H., Polchert, D., Ware, M.W., Stubbaum, G., and Battigelli, D. Identification and characterization of infectious and non-infectious sub-populations of Encephalitizoon intestinalis spores purified from in vitro cell culture. Presented at: International Symposium on Waterborne Pathogens, Cascais, Lisbon, Portugal, September 22-25, 2002.

***Contact:*** Michael W. Ware

9/22/2002

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2002 - Dec 31, 2002**

***Presented   Published***

Lindquist, H.D.A. Emerging waterborne pathogens. Presented at: 52nd Annual KU Environmental Engineering Conference, Lawrence, KS, February 6, 2002. 2/6/2002

***Contact:*** H. D. Alan Lindquist

William-True, S., Parshionikar, S., Newport, C., Robbins, D.E, and Fout, G.S. Detection of outbreak-associated human caliciviruses in groundwater by RT-PCR. Presented at: American Society for Virology Annual Meeting, Lexington, KY, July 20-24, 2002. 7/22/2002

***Contact:*** G. Shay Fout

Schaefer, III, F.W. Utility of surrogates for measuring Cryptosporidium oocysts infectivity. Presented at: Drinking Water Inspectorate Research Conference, Tadley Court, UK, June 10-11, 2002. 6/10/2002

***Contact:*** Frank W. Schaefer

Ware, M.W., Wymer, L., Lindquist, H.D.A., and Schaefer, III, F.W. Evaluation of Cryptosporidium oocyst recovery in water by EPA Method 1623 with a modified IMS dissociation procedure.. Presented at: International Symposium on Waterborne Pathogens, Lisbon, Portugal, September 22-25, 2002. 9/22/2002

***Contact:*** Michael W. Ware

Piche, R., Chen, R., Hoang, L., Dixon, B., Cross, J.H., Lindquist, H.D.A., Fyfe, M.W., Champagne, S., Isaac-Renton, J.L., and Ong, C.S.L. Molecular epidemiological studies on two cyclosporiasis outbreaks in Vancouver, British Columbia. Presented at: Emerging Waterborne Disease Symposium at the International Congress of Parasitology, Vancouver, BC, August 4-9, 2002. 8/4/2002

***Contact:*** H. D. Alan Lindquist

Schaefer, III, F.W. Utility of surrogates for measuring Cryptosporidium oocyst infectivity. Presented at: Drinking Water Inspectorate Research Conference on Drinking Water 2002, Tradey Court, England, June 10-11, 2002. 6/10/2002

***Contact:*** Frank W. Schaefer

Ware, M.W., Wymer, L., Lindquist, H.D.A., and Schaefer, III, F.W. Evaluation of Cryptosporidium oocyst recovery in water by EPA method 1623 with a modified IMS dissociation procedure. Presented at: International Symposium on Waterborne Pathogens, Lisbon, Portugal, September 22-25, 2002. 9/22/2002

***Contact:*** H. D. Alan Lindquist

Schaefer, F.W. Laboratory guidelines for analysis of bioterrorism samples. Presented at: International Symposium of Waterborne Pathogens, Cascais, Lisbon, Portugal, September 22-25, 2002. 9/22/2002

***Contact:*** Frank W. Schaefer

Stelma, Jr., G.N., Lye, D.J., Smith, B.G., and Messer, J.W. Rare occurrence of heterotrophic bacteria with pathogenic potential in potable water. Presented at: NSF International/WHO Symposium on HPC Bacteria in Drinking Water, Geneva, Switzerland, April 22-24, 2002. 4/22/2002

***Contact:*** Gerard N. Stelma

Kahane, D., McGinnis, M., Vesper, S.J., and Haugland, R.A. Comparison of genetic methods to optical methods in the identification and assessment of mold in the built environment -- comparison of TAQMAN and microscopic analysis of cladosporium spores retrieved from Zefon Air-O-Cell traces. Presented at: Indoor Air 2002, The 9th International Conference on Indoor Air Quality and Climate, Monterey, CA, June 30-July 5, 2002. 6/30/2002

***Contact:*** Stephen J. Vesper

## ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2002 - Dec 31, 2002**

***Presented Published***

Li, D., Haugland, R.A., Vesper, S.J., and Yang, C.S. Is your *Stachybotrys chartarum* a genuine *S. chartarum*? Presented at: Indoor Air 2002, The 9th International Conference on Indoor Air Quality and Climate, Monterey, CA, June 30-July 5, 2002.

6/30/2002

***Contact:*** Richard A. Haugland



# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

Jan 1, 2001 - Dec 31, 2001

***Presented Published***

## ***ABSTRACT/ORAL***

Lindquist, H.D.A. NERL microbial program with emphasis on protozoan methods. Presented at: NERC STAR Drinking Water Progress Review Meeting, Silver Springs, MD, February 22-23, 2001. 2/22/2001

***Contact:*** H. D. Alan Lindquist

Schaefer, F.W. Method 1623 for Cryptosporidium and Giardia detection. Presented at: Safe Drinking Water Act Seminar (AWWA), Columbus, OH, November 1, 2001. 11/1/2001

***Contact:*** Frank W. Schaefer

Varma, M., Lindquist, H.D.A., Schaefer, III, F.W., Ware, M.W., and Hester, J.D. A quantitative real-time pcr assay for detection of cyclospora cayetanesis. Presented at: VII International Workshops on Opportunistic Protists (IWOP), Cincinnati, OH, June 13-16, 2001. 6/13/2001

***Contact:*** Frank W. Schaefer

Ware, M.W., Schaefer, III, F.W., and Lindquist, H.D.A. Enhanced DAPI staining for cryptosporidium in water samples. Presented at: American Society for Parasitologists Annual Meeting, Albuquerque, NM, June 29-July 3, 2001. 6/29/2001

***Contact:*** Frank W. Schaefer

Lindquist, H.D.A., Bennett, J.W., Ware, M.W., Stetler, R.E., and Schaefer, III, F.W. Comparing methods for estimating [ital Cryptosporidium} spp. oocyst concentrations in water. Presented at: Annual Meeting of the American Society of Parasitologists, Albuquerque, NM, June 29-July 3, 2001. 6/29/2001

***Contact:*** H. D. Alan Lindquist

Fout, G.S. Occurrence of enteric viruses in waters. Presented at: Safe Drinking Water Meeting, Saskatoon, Saskatchewan, Canada, May 4-12, 2001. 5/7/2001

***Contact:*** G. Shay Fout

Miller, TA, and Schaefer, III, F.W. Use of long acting steroid methylprednisolone acetate for the prolongation of Cryptosporidium sp. in mice. Presented at: VII International Workshops on Opportunistic Protists (IWOP), Cincinnati, OH, June 13-16, 2001. 6/13/2001

***Contact:*** Frank W. Schaefer

Hester, J.D., Varma, M., Bobst, A.M., Ware, M.W., Lindquist, H.D.A., and Schaefer, III, F.W. Real-time pcr detection of three human-pathogenic species from the microsporidial genus encephalitozoon. Presented at: VII International Workshops on Opportunistic Protists (IWOP), Cincinnati, OH, June 13-16, 2001. 6/13/2001

***Contact:*** Frank W. Schaefer

Cashdollar, J.L., Dahling, D.R., and Fout, G.S. An alternative eluent to beef extract for eluting poliovirus from electropositive filters. Presented at: 101st General Meeting of the American Society for Microbiology, Orlando, FL, May 20-24, 2001. 5/22/2001

***Contact:*** G. Shay Fout

Grimm, A.C., Newport, C., and Fout, G.S. Development of molecular methods to detect emerging viruses. Presented at: ORD/Regional Training Workshop on "Emerging Issues" Associated with Aquatic Environmental Pathogens, Ft. Meade, MD, September 5-7, 2001. 9/5/2001

***Contact:*** Ann C. Grimm

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

Jan 1, 2001 - Dec 31, 2001

***Presented Published***

Lindquist, H.D.A. Detection of protozoa in water. Presented at: XXI Congresso Brasileiro de Microbiologia (XXI Brazilian Society of Microbiology Congress), Foz do Iguassu, Brazil, October 21-25, 2001. 10/21/2001

***Contact:*** H. D. Alan Lindquist

Lindquist, H.D.A. Cyclospora cayetanensis. Presented at: Ohio Environmental Health Association Southwest District Fall Conference, Dayton, OH, October 3-4, 2001. 10/3/2001

***Contact:*** H. D. Alan Lindquist

Schaefer, F.W. Detection of cryptosporidium oocysts in source and finished waters. Presented at: Cryptosporidium: From Molecules to Disease, Fremantle, Western Australia, Australia, October 7-12, 2001. 10/7/2001

***Contact:*** Frank W. Schaefer

Glassmeyer, S., Shoemaker, J.A., Schaefer, III, F.W., and Kryak, D.D. Fingerprinting of c. parvum by matrix assisted laser desorption ionization mass spectrometry. Presented at: Society of Environmental Toxicology and Chemistry Annual Meeting, Baltimore, MD, November 11-15, 2001. 11/11/2001

***Contact:*** Susan Glassmeyer

Gallagher, P.A., Schwegel, C.A., Creed, J.T., Gamble, B.M., Wei, X., and Heck, A. An investigation of chemical stability of arsenosugars in extraction solvents utilized to quantitatively extract arsenicals from seafood products using IC-ICP-MS and IC-ESI-MS/MS. Presented at: European Winter Conference on Plasma Spectrochemistry, Lillehammer, Norway, February 4-8, 2001. 2/5/2001

***Contact:*** John T. Creed

Shoemaker, J.A. Analytical method development for alachlor esa and other acetanilide herbicide degradation products. Presented at: 49th ASMS Conference on Mass Spectrometry and Allied Topics, Chicago, IL, May 27-31, 2001. 5/27/2001

***Contact:*** Jody A. Shoemaker

Gallagher, P.A., Gamble, Bryan M., Heck, Amy, Schwegel, C.A., and Creed, J.T. Characterization of arsenosugars and associated degradation products following an aggressive acid/base extraction procedure. Presented at: International Symposium of Environmental Toxicology of Metals and Metalloids - Environmental Chemistry, Toxicology and Health, South Mole Island, Australia, July 1-5, 2001. 7/1/2001

***Contact:*** Patricia Gallagher

Munch, J.W. Analysis of RDX and other explosives by solid phase extraction and GC/MS. Presented at: The American Water Works Water Quality Technology Conference, Nashville, TN, November 11-15, 2001. 11/11/2001

***Contact:*** Jean W. Munch

Rodriguez, Sylian, Lee, T.G., Hedrick, E.J., and Biswas, P. Iodide aerosol sorbents for mercury capture in combustion exhausts. Presented at: EPA-DOE-PRI Mega Symposium Mercury Emissions Fate, Effects and Control, Chicago, IL, August 20-24, 2001. 8/20/2001

***Contact:*** Elizabeth Hedrick

Shoemaker, J.A. Mini Symposium on Alachlor ESA. Presented at: Mini Symposium on Alachlor ESA, St. Louis, MO, October 16, 2001. 10/16/2001

***Contact:*** Jody A. Shoemaker

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2001 - Dec 31, 2001**

***Presented Published***

Morgan, J.N. Automated pressurized fluid extraction with in-line clean-up for determination of pesticides in composite diets.. Presented at: AOAC International Annual Meeting, Kansas City, MO, September 9-13, 2001. 9/9/2001

***Contact:*** Jeffrey N. Morgan

Creed, J.T., Gallagher, P.A., Gamble, Bryan M., Heck, Amy, and Schwegel, C.A. Arsenic speciation in water and dietary samples by IC-ICP-MS with structural verification via IC-ESI-MS/MS. Presented at: Federation of Analytical Chemistry and Spectroscopy Society Meeting, Detroit, MI, October 7-12, 2001. 10/7/2001

***Contact:*** John T. Creed

Melnyk, L.J., Rohrer, C., Hieber, T., and Berry, Jr., M.R. Pesticide surface residue measurements by a press sampler. Presented at: ISEA Annual Meeting, Charleston, NC, November 4-8, 2001. 11/4/2001

***Contact:*** Lisa J. Melnyk

Shoemaker, J.A. Analytical method development for Alachlor ESA and other acetanilide herbicide degradation products. Presented at: American Society for Mass Spectrometry Conference, Chicago, IL, May 28-31, 2001. 5/28/2001

***Contact:*** Jody A. Shoemaker

Gallagher, P.A., Creed, J.T., Schwegel, C.A., Heck, Amy, and Gamble, Bryan M. Stability: An investigation of AS(III)/As(V) stability in iron rich drinking water matrices. Presented at: International Ion Chromatography Symposium, Chicago, IL, September 9-12, 2001. 9/12/2001

***Contact:*** Patricia Gallagher

Creed, J.T., Gallagher, P.A., Gamble, B.M., Heck, A., Freeman, D.M., and Schwegel, C.A. The importance of arsenic species specific mass balance on the evaluation of arsenic speciation results in seafood matrices. Presented at: International Society of Exposure Analysis 2001, Charleston, SC, November 4-8, 2001. 11/4/2001

***Contact:*** John T. Creed

Munch, J.W. Analysis of RDX and other explosives by solid phase extraction and GC/MS. Presented at: The American Water Works Water Quality Technology Conference, Nashville, TN, November 11-15, 2001. 11/11/2001

***Contact:*** Jean W. Munch

Pepich, B., Winslow, S.D., Bassett, M.V., Munch, D.J., Hautman, D.P., Sinclair, J.L., Munch, J.W., Shoemaker, J.A., and Evans, O.M. Analytical method readiness for the contaminant candidate list. Presented at: American Water Works Water Technology Conference, Nashville, TN, November 11-15, 2001. 11/11/2001

***Contact:*** Jean W. Munch

Berry, Jr., M.R. An overview for the technical session: exposure medium food. Presented at: ISEA Annual Meeting, Charleston, SC, November 5, 2001. 11/5/2001

***Contact:*** Maurice R. Berry

Akland, G.G., Pellizzari, E.D., Hu, Y., Whitaker, D., Melnyk, L.J., and Berry, Jr., M.R. Measuring excess dietary exposures caused by eating activities of young children. Presented at: ISEA Annual Meeting, Charleston, SC, November 4-8, 2001. 11/4/2001

***Contact:*** Lisa J. Melnyk

# ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2001 - Dec 31, 2001**

***Presented Published***

Hedrick, E.J., Biswas, P., Lee, T.G., and Zhuang, Y. The determination of mercury species and multiple metals in coal combustion emissions using iodine-based impingers and direct injection nebulization - inductively coupled plasma mass spectrometry analysis. Presented at: 94th Annual Air and Waste Management Association, Orlando, FL, June 24-28, 2001.

6/24/2001

***Contact:*** Elizabeth Hedrick

Evans, O.M., Cantu, R., Behymer, T.D., Kryak, D.D., and Dufour, A.P. A pilot study to determine the water volume ingested by recreational swimmers. Presented at: Society for Risk Analysis 2001 Annual Meeting, Seattle, WA, December 2-5, 2001.

12/2/2001

***Contact:*** Alfred P. Dufour

Wymer, L.J. Sampling design for assessing recreational water quality. Presented at: The International Environmetrics Society Conference 2001, Portland, OR, August 13-17, 2001.

8/13/2001

***Contact:*** Larry J. Wymer

Brown, Sherie, Santo Domingo, J., Siefiring, S.D., and Haugland, R.A. Use of taqman to enumerate enterococcus faecalis in water.. Presented at: American Society of Microbiology, Orlando, FL, May 19-24, 2001.

5/19/2001

***Contact:*** Sherie L. Brown

Smith, B.G., Lye, D.J., and Messer, J.W. Occurrence of heterotrophic bacteria with virulence characteristics in potable water. Presented at: American Society for Microbiology 101st General Meeting, Orlando, FL, May 20-24, 2001.

5/1/2001

***Contact:*** Bennett G. Smith

Siefiring, S.D., Santo Domingo, J., Brinkman, Nicole, and Haugland, R.A. Detection of fecal enterococci using a real time PCR method. Presented at: American Society of Microbiology, Orlando, FL, May 19-24, 2001.

5/19/2001

***Contact:*** Shawn D. Siefiring

de la Cruz, A.A., Messer, J.W., Rankin, C.C., and Stelma, Jr., G.N. A pilot study to compare microbial and chemical indicators of human fecal contamination in water. Presented at: American Society for Microbiology 101st General Meeting, Orlando, FL, May 20-24, 2001.

5/20/2001

***Contact:*** Armah A. de la Cruz

McDaniels, A.E., and Lynn, S. G. Recovery of helicobacter pylori from water by immunomagnetic capture. Presented at: American Society for Microbiology, Orlando, FL, May 20-24, 2001.

5/20/2001

***Contact:*** Audrey E. McDaniels

Covert, T.C., Reyes, A.L., Rodgers, M.R., and Dufour, A.P. The effect of temperature on the growth of mycobacterium avium complex (MAC) organisms. Presented at: American Society of Microbiology 101st General Meeting, Orlando, FL, May 20-24, 2001.

5/20/2001

***Contact:*** Terry C. Covert

Stelma, Jr., G.N., Messer, J.W., Lye, D.J., and Smith, B.G. Low pathogenic potential in heterotrophic bacteria from potable water. Presented at: Annual Meeting of the Water Quality Association, Orlando, FL, March 29, 2001.

3/29/2001

***Contact:*** Gerard N. Stelma

# NERL/MCEARD Publications

Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)

Jan 1, 2001 - Dec 31, 2001

*Presented Published*

## BOOK CHAPTER

Schaefer, III, F.W. "Detection of protozoan parasites in source and finished water." In: Manual of Environmental Microbiology, 2nd, Chapter 19 Washington, DC: American Society for Microbiology 2001, 220-233. 11/1/2001  
**Contact:** Frank W. Schaefer

## JOURNAL

Simmons, O.D., Sobsey, M.D., Heaney, C.D., Schaefer, F.W., and Francy, D.S. Concentration and detection of cryptosporidium oocysts in surface water samples by method 1622 using ultrafiltration and capsule filtration. 2001. Applied and Environmental Microbiology 67 (3):1123-1127 (2001). EPA/600/J-03/092. 3/1/2001

**Contact:** Frank W. Schaefer

Lindquist, H.D.A., Bennett, J.W., Ware, M.W., Stetler, R.E., Gauci, M., and Schaefer, III, F.W. Testing methods for detection of Cryptosporidium spp. in water samples. Southeast Asian Journal of Tropical Medicine and Public Health 32 (2):190-194 (2001). EPA/600/J-03/352. 2/1/2001

**Contact:** H. D. Alan Lindquist

Simmons, O.D., Heaney, C.D., Francy, D.S., Nally, R., Schaefer, F.W., and Sobsey, M.D. Detection of cryptosporidium oocysts in stream water samples using U.S. Environmental Protection Agency Method 1622. Journal of the American Water Works Association 67 (3):1123-1127 (2001). EPA/600/J-03/089. 1/1/2001

**Contact:** Frank W. Schaefer

Lindquist, H.D.A., Ware, M.W., Stetler, R.E., Wymer, L.J., and Schaefer, III, F.W. A comparison of four fluorescent antibody based methods for purifying, detecting and confirming Cryptosporidium parvum in surface waters. Journal of Parasitology 87 (5):1124-1131 (2001). EPA/600/J-03/344. 1/31/2001

**Contact:** Frank W. Schaefer

Simmons, Otto D., Sobsey, Mark D., Francy, Donna S., and Schaefer, III, F.W. Letter to the editor. Journal of the American Water Works Association 93 (3):108-109 (2001). EPA/600/J-03/099. 3/1/2001

**Contact:** Frank W. Schaefer

Gallagher, P.A., Schwegel, C.A., Shoemaker, J.A., Creed, J.T., and Wei, X. Speciation and Preservation of Inorganic Arsenic in Drinking Water Sources Using IC-ICP-MS. Journal of Environmental Monitoring 3 (4):371-376 (2001). EPA/600/J-03/098. 5/31/2001

**Contact:** Patricia Gallagher

Hedrick, E.J., Lee, T.G., Biswas, P., and Zhuang, Y. The development of iodine based impinger solutions for the efficient capture of Hg using direct injection nebulization - inductively coupled plasma mass spectrometry analysis. Environmental Science & Technology 35 (18):3764-3773 (2001). EPA/600/J-03/108. 9/15/2001

**Contact:** Elizabeth Hedrick

Wei, X., Schwegel, C.A., and Creed, J.T. A comparison of urinary arsenic speciation via direct nebulization and on-line photooxidation-hydride generation with detection by inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry 16 (1):12-19 (2001). EPA/600/J-03/102, [www.rsc.org/jaas](http://www.rsc.org/jaas). 1/1/2001

**Contact:** John T. Creed

# ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2001 - Dec 31, 2001**

***Presented Published***

Rosenblum, L., Hieber, T., and Morgan, J.N. Determination of pesticides in composite dietary samples by gas chromatography/mass spectrometry in the selected ion monitoring mode using a temperature programmable large volume injector with pre-separation column. Journal of AOAC International 84 (3):891-900 (2001). EPA/600/J-03/090.

6/1/2001

***Contact:*** Jeffrey N. Morgan

Gallagher, P.A., Shoemaker, J.A., Wei, X., Schwegel, C.A., and Creed, J.T. Extraction and detection of arsenicals in seaweed via accelerated solvent extraction with ion chromatographic separation and ICP-MS detection. Fresenius' Journal of Analytical Chemistry 369 (1):71-80 (2001). EPA/600/J-01/031.

1/1/2001

***Contact:*** John T. Creed

Freeman, N.C.G., Sheldon, L.S., Melnyk, L.J., Pellizzari, E.D., Berry, Jr., M.R., and Jimenez, M. Contribution of children's activities to lead contamination of food. Journal of Exposure Analysis and Environmental Epidemiology 11 (5):407-413 (2001). EPA/600/J-03/097,

6/1/2001

***Contact:*** Maurice R. Berry

Wang, N., and Budde, W.L. Determination of carbamate, urea, and thiourea pesticides and herbicides in water. Analytical Chemistry 73 (5):997-1006 (2001). EPA/600/J-03/353.

3/1/2001

***Contact:*** William L. Budde

Villamena, F.A., and de la Cruz, A.A. Caffeine selectivity of divinylbenzene crosslinked polymers in aqueous media. Journal of Applied Polymer Science 82 (1):195-205 (2001). EPA/600/J-03/109.

1/31/2001

***Contact:*** Armah A. de la Cruz

Haugland, R.A., Vesper, S.J., and Harmon, S.M. Phylogenetic relationships of memnoniella and stachybotrys species and evaluation of morphological features for memnoniella species identification. 2001. Mycologia 93 (1):54-65 (2001). EPA/600/J-03/111.

7/1/2001

***Contact:*** Richard A. Haugland

Vesper, S.J., Dearborn, D.G., Magnuson, M.L., Yike, I., and Haugland, R.A. Characterization of the hemolysin, stachylysin, from stachybotrys chartarum. Infection and Immunity 69 (2):912-916 (2001). EPA/600/J-03/091.

2/1/2001

***Contact:*** Stephen J. Vesper

## ***PUB REPORT***

Fout, G.S., Dahling, D.R., and Safferman, Robert S. Total culturable virus quantal assay. Chapter 15 2001. EPA/600/4-84/013.

4/1/2001

***Contact:*** G. Shay Fout

Fout, G.S., Dahling, D.R., and Safferman, Robert S. Concentration and processing of waterborne viruses by positive charge 1MDS cartridge filters and organic flocculation. 2001. EPA/600/4-84/013 (N14).

4/1/2001

***Contact:*** G. Shay Fout

## ***SYMPOS/CONF***

Schaefer, III, F.W. Can we believe our results?. Presented at: Royal Society of Chemistry Water Chemistry Forum. Cryptosporidium: The Analytical Challenge, Warwick, UK, October 25-26, 1999.

10/25/2001

***Contact:*** Frank W. Schaefer

## ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2001 - Dec 31, 2001**

***Presented Published***

Schaefer, III, F.W., and Lindquist, H.D.A. Wet demonstration workshop on the identification of Cryptosporidium, Microsporidia, and Giardia in drinking water. Presented at: VII International Workshop on Opportunistic Protists, Cincinnati, OH, June 13, 2001.

6/13/2001

***Contact:*** Frank W. Schaefer

Schaefer, F.W. Detection of Cryptosporidium Oocysts in water matrices. Presented at: Cryptosporidium: From Molecules to Disease, Fremantle, Western Australia, Australia, October 7-12, 2001.

10/7/2001

***Contact:*** Frank W. Schaefer

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2000 - Dec 31, 2000**

***Presented Published***

## ***ABSTRACT/ORAL***

Lindquist, H.D.A. Emerging pathogens in drinking water. Presented at: Ohio Environmental Health Association Southwest District Fall Conference 2000, Dayton, OH, October 4, 2000. 10/4/2000

***Contact:*** H. D. Alan Lindquist

Lindquist, H.D.A., Ware, M.W., Stetler, R.E., and Schaefer, III, F.W. Testing methods for detection of cryptosporidium spp. in water samples. Presented at: 3rd Seminar on Food and Waterborne Parasitic Zoonoses in the 21th Century, Bangkok, Thailand, December 6-8, 2000. 12/7/2000

***Contact:*** H. D. Alan Lindquist

Lindquist, H.D.A. Current methods for detection of Cryptosporidium spp.. Presented at: Science and Mission Club, Cincinnati, OH, November 8, 2000. 11/8/2000

***Contact:*** H. D. Alan Lindquist

Lindquist, H.D.A. Detection of parasitic protozoa in water, including giardia and cryptosporidium: regulative and public health aspects. Presented at: Companhia de Tecnologia de Saneamento Ambiental, Sao Paulo, Brazil, July 22-August 6, 2000. 8/1/2000

***Contact:*** H. D. Alan Lindquist

Thompson, S., Jackson, J.L., Suva-Castillo, M., Yanko, W.A., and Williams, Jr., F.P. Detection of infectious adenovirus in tertiary treated and UV disinfected wastewater during a UV disinfection pilot study. Presented at: WEFTEC 2000, 73rd Annual Conference & Exposition, Anaheim, CA, October 14-18, 2000. 10/15/2000

***Contact:*** Frederick P. Williams

Fout, G.S. Quality assurance for methods to detect human enteric viruses in drinking water. Presented at: Symposium on Viruses in Drinking Water, Seoul, Korea, October 6-14, 2000. 10/14/2000

***Contact:*** G. Shay Fout

Lindquist, H.D.A. A. A condition or: A. Minimus intercession on behalf of a parasite. The ecology of malaria in northern Thailand.. Presented at: American Society for Microbiology 100th annual meeting, Los Angeles, CA, May 21-25, 2000. 5/22/2000

***Contact:*** H. D. Alan Lindquist

Schaefer, F.W. A historical perspective of detection methods for giardia cysts and cryptosporidium oocysts in water. Presented at: USGS Workshop "Building Capabilities for Monitoring & Assessment of Public Health Microbiology", Columbus, OH, March 13-14, 2000. 3/14/2000

***Contact:*** Frank W. Schaefer

Fout, G.S. Occurrence of enteric viruses in surface waters. Presented at: USGS Workshop "Building Capabilities for Monitoring & Assessment of Public Health Microbiology, Columbus, OH, March 14-16, 2000. 3/14/2000

***Contact:*** G. Shay Fout

Lindquist, H.D.A. Survey of emerging diseases of concern in drinking water. Presented at: Raymond Walters College Environmental Science Class, Cincinnati, OH, February 4, 2000. 2/4/2000

***Contact:*** H. D. Alan Lindquist

Lindquist, H.D.A. New microbes for the new millennium, emerging pathogens of significance in drinking water. Presented at: University of Cincinnati Environmental Engineering Seminar, Cincinnati, OH, March 9, 2000. 3/9/2000

***Contact:*** H. D. Alan Lindquist

# ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2000 - Dec 31, 2000**

***Presented Published***

Lindquist, H.D.A. Old problems, new pathogens: emerging pathogens in drinking water.  
Presented at: Miami University Microbiology Department Seminar, Oxford, OH, February 23, 2000.

2/23/2000

***Contact:*** H. D. Alan Lindquist

Grimm, A.C., and Fout, G.S. Development of a molecular method to identify hepatitis E virus.  
Presented at: American Society for Virology, Ft. Collins, CO, July 8-12, 2000.

7/12/2000

***Contact:*** Ann C. Grimm

Lindquist, H.D.A. Surveying the risks from emerging diseases. Presented at: Dayton Chapter of the American Society of Civil Engineers Environmental Group, Dayton, OH, November 13, 2000.

11/13/2000

***Contact:*** H. D. Alan Lindquist

Lindquist, H.D.A., Bennett, J.W., Ware, M.W., Stetler, R.E., Gauci, M., and Schaefer, III, F.W.  
Testing methods for detection of *Cryptosporidium* spp. in water samples. Presented at: 3rd Seminar on Food and Waterborne Parasitic Zoonoses, Bangkok, Thailand, December 6-8, 2000.

12/6/2000

***Contact:*** H. D. Alan Lindquist

Grimm, A.C. Development of a molecular method to identify the emerging pathogen Hepatitis E in water samples. Presented at: The Science and Mission Club, Cincinnati, OH, February 9, 2000.

2/9/2000

***Contact:*** Ann C. Grimm

Schwegel, C.A., Gallagher, P.A., Wei, X., and Creed, J.T. Speciation and preservation of inorganic arsenic in drinking water supplies with IC-ICP-MS. Presented at: 2000 Winter Conference on Plasma Spectrochemistry, Ft. Lauderdale, FL, January 10-15, 2000.

1/11/2000

***Contact:*** Carol A. Schwegel

Hedrick, E.J., Minges, H., Lee, T.G., and Biswas, P. Impinger solutions for the efficient capture of gaseous mercury species using direct injection nebulization inductively coupled plasma mass spectrometry (DIN-ICP/MS) analysis. Presented at: Air and Waste Management Association Meeting, Salt Lake City, UT, June 18-21, 2000.

6/18/2000

***Contact:*** Elizabeth Hedrick

Julien, E.A., Berry, Jr., M.R., Tomerlin, J.R., Sert, M.Y., Tucker, K.D., and Waylett, D.K. Recent enhancements to the dietary exposure potential model. Presented at: ISEA Meeting, Monterey, CA, October 24-27, 2000.

10/25/2000

***Contact:*** Maurice R. Berry

Rohrer, C., Hieber, T., Melnyk, L.J., and Berry, Jr., M.R. Pesticide transfer efficiency from household surfaces to foods. Presented at: ISEA Annual Conference, Monterey, CA, October 24-27, 2000.

10/24/2000

***Contact:*** Lisa J. Melnyk

Morgan, J.N., and Kauffman, P. Comparison of GC-FPD and GC/AED for determination of organophosphate pesticides in composite diet samples. Presented at: Eastern Analytical Symposium, Atlantic City, NJ, October 29-November 3, 2000.

10/29/2000

***Contact:*** Jeffrey N. Morgan

Creed, J.T., Gallagher, P.A., Wei, X., Shoemaker, J.A., and Schwegel, C.A. Speciation of arsenic in exposure assessment matrices. Presented at: 23rd Annual Conference on Analysis of Pollutants in the Environment, Pittsburgh, PA, May 14-16, 2000.

5/14/2000

***Contact:*** John T. Creed

# ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2000 - Dec 31, 2000**

***Presented Published***

Creed, J.T., Gallagher, P.A., Wei, X., Schwegel, C.A., Lorenzana, R.M., and Chamberlain, I. Accelerated solvent extraction of arsenicals from seafood matrices with ion chromatography and ICP-MS detection. Presented at: 4th International Conference on Arsenic Exposure and Health Effects, San Diego, CA, June 18-22, 2000.

6/19/2000

***Contact:*** John T. Creed

Freeman, N.C.G., Pellizzari, E.D., Melnyk, L.J., and Berry, Jr., M.R. Relationships of metals in floor dust and on the hands of toddlers. Presented at: ISEA Annual Conference, Monterey, CA, October 24-27, 2000.

10/27/2000

***Contact:*** Lisa J. Melnyk

Hu, Y., Akland, G.G., Pellizzari, E.D., Clayton, C.A., Melnyk, L.J., and Berry, Jr., M.R. Dietary exposures of young children, part 3: modelling. Presented at: ISEA Annual Meeting, Monterey, CA, October 24-27, 2000.

10/27/2000

***Contact:*** Lisa J. Melnyk

Raymer, J.H., Pellizzari, E.D., Akland, G.G., Weinberg, H., and Shoemaker, J.A. The uptake of water disinfection by-products into foods during home processing. Presented at: ISEA Annual Meeting, Monterey, CA, October 24-27, 2000.

10/24/2000

***Contact:*** Jody A. Shoemaker

Melnyk, L.J., Berry, Jr., M.R., Akland, G.G., Hu, Y., and Pellizzari, E.D. Dietary Exposures of young children, part 1: model development and study design. Presented at: ISEA Annual Conference, Monterey, CA, October 24-27, 2000.

10/24/2000

***Contact:*** Lisa J. Melnyk

Hu, Y., Pellizzari, E.D., Raymer, J.H., Akland, G.G., Beach, J.B., Keever, J.T., Barr, D., Needham, L., Schumacher, B.A., and Melnyk, L.J. Collecting urine samples from young children for pesticide studies. Presented at: ISEA Annual Conference, Monterey, CA, October 24-27, 2000.

10/26/2000

***Contact:*** Lisa J. Melnyk

Akland, G.G., Pellizzari, E.D., Hu, Y., Whitaker, D., Melnyk, L.J., Berry, Jr., M.R., and Leckie, J. Dietary exposures of young children, part II: field study. Presented at: ISEA Annual Conference, Monterey, CA, October 24-27, 2000.

10/25/2000

***Contact:*** Lisa J. Melnyk

Glassmeyer, S. The effects of disinfection on pharmaceuticals in drinking water supplies. Presented at: Society of Environmental Toxicology and Chemistry, Nashville, TN, November 11-16, 2000.

11/12/2000

***Contact:*** Jody A. Shoemaker

Cantu, R., Evans, O.M., and Dufour, A.P. Rapid and simplified HPLC method with UV detection, pH control and selective dechlorinator for cyanuric acid analysis in water. Presented at: American Chemical Society Regional Meeting, Covington, KY, May 16-19, 2000.

5/16/2000

***Contact:*** Otis M. Evans

Berry, Jr., M.R. Exposure assessment in a longitudinal cohort study of environmental effects on children. Presented at: Interagency Birth Cohort Feasibility Workshop, Washington, DC, January 1-11, 2000.

1/13/2000

***Contact:*** Maurice R. Berry

# ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2000 - Dec 31, 2000**

***Presented Published***

Gallagher, P.A., Schwegel-Brockhoff, C.A., Murray, S., Creed, J.T., Wei, X., McKiernan, J.W., and Caruso, J.A. Accelerated solvent extraction of arsenicals from environmental matrices with ion chromatography separation and ICP-MS detection. Presented at: 2000 Winter Conference on Plasma Spectrochemistry, Ft. Lauderdale, FL, January 10-15, 2000.

1/11/2000

***Contact:*** John T. Creed

Gallagher, P.A., Schwegel, C.A., Creed, J.T., Heck, Amy, and Wei, X. A comparison of extraction efficiencies in seafood matrices using a synthetic stomach and an accelerated solvent extraction approach with IC-ICP-MS detection. Presented at: European Winter Conference on Plasma Spectrochemistry, Lillehammer, Norway, February 4-8, 2001.

2/6/2000

***Contact:*** John T. Creed

Creed, J.T., Gallagher, P.A., Wei, X., and Schwegel, C.A. Extraction techniques for the removal of arsenicals from seafood exposure matrices with ICP-MS detection. Presented at: 4th International Symposium on Speciation of Elements in Biological, Environmental and Toxicological Sciences, Vancouver, Canada, June 25-July 1, 2000.

6/26/2000

***Contact:*** John T. Creed

Creed, J.T., Gallagher, P.A., Schwegel, C.A., and Heck, Amy. Arsenic speciation: sampling preservation and analysis. Presented at: Water Quality Technology Conference, Salt Lake City, UT, November 5-9, 2000.

11/5/2000

***Contact:*** John T. Creed

Cantu, R., Evans, O.M., Kawahara, F.K., and Dufour, A.P. Enhanced retention and sensitivity in the analysis of cyanuric acid in water using porous graphitic carbon and UV detection in high pressure liquid chromatography. Presented at: American Chemical Society 220th National Meeting, Washington, DC, August 20-24, 2000.

8/20/2000

***Contact:*** Otis M. Evans

Wymer, L.J., and Dufour, A.P. A model for estimating the incidence of swimming-related gastrointestinal illness as a function of water quality indicators. Presented at: 4th International Conference on Environmetrics and Chemometrics, Las Vegas, NV, September 18-20, 2000.

9/18/2000

***Contact:*** Larry J. Wymer

Brenner, K.P., Sieftring, S.D., and Brown, S.L. Comparison of mEnterococcus agar and the U.S. Environmental Protection Agency-recommended Enterococci methods, mE and mEI agar. Presented at: American Society of Microbiology, Los Angeles, CA, May 21-24, 2000.

5/24/2000

***Contact:*** Kristen P. Brenner

McDaniels, A.E., Stelma, Jr., G.N., and Haugland, R.A. Quantitative measurement of *Helicobacter pylori* by the TaqMan fluorogenic probe system. Presented at: American Society of Microbiology, Los Angeles, CA, May 21-24, 2000.

5/22/2000

***Contact:*** Audrey E. McDaniels

Haugland, R.A., Vesper, S.J., and Wymer, L.J. A rapid method for the extraction of fungal DNA from environmental samples: evaluation in the quantitative analysis of *Memnoniella echinata* conidia using real time detection of PCR products. Presented at: Mycological Society of American Annual Meeting, Burlington, VT, July 29-August 3, 2000.

7/30/2000

***Contact:*** Richard A. Haugland

Brenner, K.P. Methods for determining recreational water quality. Presented at: USGS Workshop "Building Capabilities for Monitoring & Assessment in Public Health Microbiology", Columbus, OH, March 14-16, 2000.

3/14/2000

***Contact:*** Kristen P. Brenner

# NERL/MCEARD Publications

Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)

Jan 1, 2000 - Dec 31, 2000

Presented Published

## BOOK

Hurst, C.J., and Lindquist, H.D.A. "Defining the ecology of viruses." In: Viral Ecology, Chapter 1 C.J. Hurst (Ed.), San Diego, CA: Academic Press 2000. EPA/600/A-00/030. 5/1/2000

**Contact:** H. D. Alan Lindquist

Covert, T.C. "Salmonella. In American Water Works Association Manual of Water Supply Practices, Waterborne Pathogens, AWWA M48." In: Waterborne Pathogens, AWWA Manual M48, 1st, Chapter 15 Denver, CO: AWWA 48, 2000, 107-110. EPA/600/A-00/029. 1/1/2000

**Contact:** Terry C. Covert

## JOURNAL

Eberhard, M.L., Ortega, Y.R., Hanes, D.E., Nace, E.K., Do, R.Q., Robl, M.G., Won, K.Y., Gavidia, C., Sass, N.L., Mansfield, K., Gozalo, A., Griffiths, J., Gilman, R., Sterling, C.R., and Arrowood, M.J. Attempts to establish experimental cyclospora cayetanensis infection in laboratory animals. June 2000. Journal of Parasitology 86 (3):577-582 (2000). 6/1/2000

**Contact:** Frank W. Schaefer

Hester, J.D., Lindquist, H.D.A., Bobst, A.M., and Schaefer, F.W. Fluorescent in situ detection of encephalitozoon hellem spores with a 6-carboxyfluorescein-labeled RNA-targeted oligonucleotide probe. May-June. Journal of Eukaryotic Microbiology 47 (3):299-308 (2000). 5/1/2000

**Contact:** H. D. Alan Lindquist

Melnik, L.J., Berry, Jr., M.R., Sheldon, L.S., Freeman, N., Pellizzari, E.D., and Kinman, R.N. Dietary exposure of children living in lead-laden environments. Journal of Exposure Analysis and Environmental Epidemiology 10 (No. 6, pt. 2):723-731 (2000). EPA/600/J-01/010. 11/1/2000

**Contact:** Lisa J. Melnyk

Raymer, J.H., Pellizzari, E.D., Childs, B., Briggs, K., and Shoemaker, J.A. Analytical methods for water disinfection by-products in foods and beverages. Journal of Exposure Analysis and Environmental Epidemiology 10 (No. 6, pt. 2):808-815 (2000). EPA/600/J-01/011, [www.nature.com/jea](http://www.nature.com/jea). 11/17/2000

**Contact:** Jody A. Shoemaker

Wei, X., Schwegel, C.A., and Creed, J.T. Application of sample pre-oxidation of arsenite in human urine prior to speciation via on-line photo-oxidation with membrane hydride generation and ICP-MS detection. Analyst 125 (6):1215-1220 (2000). EPA/600/J-01/016. 5/30/2000

**Contact:** John T. Creed

Hu, Y., Barr, D., Akland, G.G., Melnyk, L.J., Needham, L., Pellizzari, E.D., Raymer, J.H., and Roberds, J.M. Collecting urine samples from young children using cotton gauze for pesticide studies. Journal of Exposure Analysis and Environmental Epidemiology 10 (No. 6, pt. 2):703-709 (2000). EPA/600/J-01/013. 11/1/2000

**Contact:** Lisa J. Melnyk

Gallagher, P.A., Wei, X., Shoemaker, J.A., Schwegel, C.A., and Creed, J.T. Detection of arsenosugars from kelp extracts via IC-ESI-MSS/MS and IC membrane hydride generation ICP-MS. Journal of Analytical Atomic Spectrometry (Cambridge, United Kingdom: The Royal Society of Chemistry) 14 (12):1829-1834 (2000). EPA/600/J-01/015. 1/1/2000

**Contact:** John T. Creed



# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 2000 - Dec 31, 2000**

***Presented Published***

Akland, G.G., Pellizzari, E.D., Hu, Y., Roberds, M., Rohrer, C., Leckie, J., and Berry, Jr., M.R. Factors influencing total dietary exposure of young children. *Journal of Exposure Analysis and Environmental Epidemiology* 10 (No. 6, pt. 2):710-722 (2000). EPA/600/J-01/012.

11/1/2000

**Contact:** Maurice R. Berry

Debre, O., Budde, W.L., and Song, X. Negative ion electrospray of bromo- and chloroacetic acids and an evaluation of exact mass measurements with a bench-top time-of-flight mass spectrometer. *Journal of the American Society for Mass Spectrometry* 11 (9):809-821 (2000).

9/1/2000

**Contact:** William L. Budde

Argueta, C., Yoder, S., Holtzman, A.E., Aronson, T.W., Glover, N., Berlin, O.G.W., Stelma, Jr., G.N., Froman, S., and Tomasek, P. Isolation and identification of nontuberculous mycobacteria from foods as possible exposure sources. *Journal of Food Protection* 63 (7):930-933 (2000).

7/1/2000

**Contact:** Gerard N. Stelma

Vesper, S.J., Dearborn, D.G., Elidemir, O., and Haugland, R.A. Quantification of siderophore and hemolysin from *Stachybotrys chartarum* strains, including a strain isolated from the lung of a child with pulmonary hemorrhage and hemosiderosis. *Applied and Environmental Microbiology* 66 (6):2678-2681 (2000). EPA/600/J-00/149.

6/1/2000

**Contact:** Stephen J. Vesper

Vesper, S.J., Dearborn, Yike, I., Allan, T., Sobolewski, J., Hinkley, S.F., Jarvis, B.B., and Haugland, R.A. Evaluation of *Stachybotrys chartarum* in pulmonary hemorrhage case house before, during and after remediation. 2000. *Journal of Urban Health* 77:68-85 (2000).

5/1/2000

**Contact:** Stephen J. Vesper

Piocos, E.A., and de la Cruz, A.A. Solid phase extraction and high performance liquid chromatography with photodiode array detection of chemical indicators of human fecal contamination in water. *Journal of Liquid Chromatography and Related Technology* 23 (8):1281-1291 (2000). EPA/600/J-03/294, [www.dekker.com](http://www.dekker.com).

4/26/2000

**Contact:** Armah A. de la Cruz

## ***PUB REPORT***

Behymer, T.D., and Munch, D.J. Methods for the determination of organic and inorganic compounds in drinking water, volume 1. 2000. EPA/815/R-00/014.

8/31/2000

**Contact:** Thomas D. Behymer

Munch, J.W. Method 528. Determination of phenols in drinking water by solid phase extraction and capillary column gas chromatography/mass spectrometry (GC/MS). 2000. EPA/815/R-00/014.

8/1/2000

**Contact:** Jean W. Munch

Brenner, K.P. Membrane filter method for the simultaneous detection of total coliforms and *Escherichia coli* in drinking water. 2000. EPA/600/R-00/013, [NET].

3/1/2000

**Contact:** Kristen P. Brenner

# ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 2000 - Dec 31, 2000**

***Presented Published***

## ***SYMPOS/CONF***

Zhuang, Y., Biswas, P., Quintan, M.E., Lee, T.-G., and Hedrick. Kinetic study of adsorption and transformation of mercury on fly ash particles in an entrained flow reactor. Presented at: Air & Waste Management Association National Conference, Salt Lake City, UT, June 18-21, 2000.

6/20/2000

***Contact:*** Elizabeth Hedrick

Hedrick, E.J., Minges, H., Lee, T.-G., and Biswas, P. Evaluation of iodine based impinger solutions for the efficient capture of Hg using direct injection nebulization inductively coupled plasma mass spectrometry (DIN-ICP/MS) analysis. Presented at: Air & Waste Management Association National Conference, Salt Lake City, UT, June 18-22, 2000.

6/19/2000

***Contact:*** Elizabeth Hedrick

Rodgers, M.R., Shadix, L., and Feige, M.A. Studies on the use of ampicillin-dextrin agar as aeromonas recovery medium. Presented at: Water Technology Conference, Salt Lake City, UT, November 5-9, 2000.

11/6/2000

***Contact:*** Mark R. Rodgers



# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 1999 - Dec 31, 1999**

***Presented Published***

## ***ABSTRACT/ORAL***

Grimm, A.C., and Fout, G.S. Development of a molecular method to identify the merging pathogen Hepatitis E in water samples. Presented at: Fifteenth Annual Scientific Symposium of the Ohio River Basin Consortium for Research and Education, Cincinnati, OH, October 20-22, 1999. 10/20/1999

***Contact:*** Ann C. Grimm

Lindquist, H.D.A. Methods for detection of cryptosporidium sp. and giardia sp.. Presented at: ORSANCO Annual Meeting, Cincinnati, OH, October 21, 1999. 10/21/1999

***Contact:*** H. D. Alan Lindquist

Villamena, F.A., and de la Cruz, A.A. Caffeine-Imprinted Polymer: Its Application in the Detection of Non-Microbial Indicators of Human Fecal Contamination in Water. 1999 ASM Annual Meeting, Chicago, IL, 5/30-6/3/99. 6/1/1999

***Contact:*** Armah A. de la Cruz

Villamena, F.A., and de la Cruz, A.A. Caffeine specificity of various non-imprinted polymers in aqueous media. Presented at: American Chemical Society Meeting, New Orleans, LA, August 22-26, 1999. 8/23/1999

***Contact:*** Armah A. de la Cruz

Lindquist, H.D.A., Bennett, J.W., Broomall, K., Glover, G., and Schaefer, III, F.W. Counting cryptosporidium, an analysis of the utility of various cytometric techniques. Presented at: Annual Meeting of American Society of Parasitologists, Monterey, CA, July 5-10, 1999. 7/6/1999

***Contact:*** H. D. Alan Lindquist

Bennett, J.W., and Lindquist, H.D.A. Epifluorescence microscopy and solid phase cytometry as confirmatory methods for the enumeration of protozoa by flow cytometry. Presented at: Annual Meeting of American Society of Parasitologists, Monterey, CA, July 5-10, 1999. 7/6/1999

***Contact:*** H. D. Alan Lindquist

Hester, J.D., Lindquist, H.D.A., Bobst, A.M., and Schaefer, III, F.W. A novel detection method for *Encephalitozoon hellem* in water. Presented at: International Symposium on Waterborne Pathogens, Milwaukee, WI, August 29-September 1, 1999. 8/30/1999

***Contact:*** H. D. Alan Lindquist

Simmons, O.D., Juliano, J.J., Heaney, C.D., Francy, D.S., Schaefer, III, F.W., and Sobsey, M.D. Comparison of filtration methods for primary recovery of *Cryptosporidium parvum* from water. Presented at: International Symposium on Waterborne Pathogens, Milwaukee, WI, August 29-September 1, 1999. 8/30/1999

***Contact:*** Frank W. Schaefer

Kang, L.-T., and de la Cruz, A.A. Characteristic antibody responses during a waterborne cryptosporidiosis outbreak. Presented at: 1999 ASM Annual Meeting, Chicago, IL, May 30-June 3, 1999. 6/1/1999

***Contact:*** Armah A. de la Cruz

Detection of Waterborne Caliciviruses. Presented at: International Workshop on Human Caliciviruses, Atlanta, GA, March 29-31, 1999. 3/29/1999

***Contact:*** G. Shay Fout

## ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 1999 - Dec 31, 1999**

***Presented Published***

Simmons, O.D., Heaney, C.D., Francy, D.S., Schaefer, III, F.W., and Sobsey, M.D. Recovery of *Cryptosporidium parvum* Oocysts from Environmental Surface Water Samples Collected Throughout the U.S. Using USEPA Method 1622. 1999 ASM Annual Meeting, Chicago, IL, 5/30-6/3/99.

6/1/1999

***Contact:*** Frank W. Schaefer

Potter, B.B., Goldberg, M.M., and Clayton, C.A. The effects of multiple interferences on the EPA total cyanide method 335.4. Presented at: 1999 Industrial Wastewater Seminar, Greensboro, NC, October 5-6, 1999.

10/5/1999

***Contact:*** Billy B. Potter

Rohrer, C., Berry, Jr., M.R., Akland, G.G., Roberts, M., and Pellizzari, E.D. Monitoring the transfer of pesticide residues from soft surfaces to foods. Presented at: AOAC International Meeting, Houston, TX, September 26-30, 1999.

9/26/1999

***Contact:*** Maurice R. Berry

Akland, G.G., Pellizzari, E.D., Hu, Y., Clayton, C.A., Long, K., Roberts, M., Berry, Jr., M.R., and Leckie, J. The three interacting factors associated with children's dietary exposures: environmental concentrations, food contamination, and children's behaviors. Presented at: American Chemical Society Meeting, New Orleans, LA, August 22-26, 1999.

8/23/1999

***Contact:*** Maurice R. Berry

Wei, X., Shoemaker, J.A., Gallagher, P.A., Schwegel, C.A., and Creed, J.T. Extraction and identification of arsenosugars in commercially available seaweeds. Presented at: International Ion Chromatography Symposium, San Jose, CA, September 12-15, 1999.

9/13/1999

***Contact:*** John T. Creed

Rohrer, C., Berry, Jr., M.R., Akland, G.G., Roberds, M., and Pellizzari, E.D. Transfer of pesticides from surfaces to foods for the estimation of dietary exposure to children. Presented at: American Chemical Society Meeting, New Orleans, LA, August 22-26, 1999.

8/23/1999

***Contact:*** Maurice R. Berry

Berry, Jr., M.R., Melnyk, L.J., Rohrer, C., Akland, G.G., Clayton, C.A., Hu, Y., Aragon, E.D., Roberds, J.M., and Pellizzari, E.D. Measuring dietary exposure of young children. Presented at: American Chemical Society Meeting, New Orleans, LA, August 22-26, 1999.

8/23/1999

***Contact:*** Maurice R. Berry

Rohrer, C., Berry, Jr., M.R., Roberds, M., Akland, G.G., and Pellizzari, E.D. Monitoring the transfer of pesticide residues from soft surfaces to foods. Presented at: AOAC International Meeting, Houston, TX, September 26-30, 1999.

9/27/1999

***Contact:*** Maurice R. Berry

Melnyk, L.J., Berry, Jr., M.R., Sheldon, L.S., Freeman, N., and Pellizzari, E.D. Dietary exposure of children to lead. Presented at: American Chemical Society National Meeting, New Orleans, LA, August 22-26, 1999.

8/23/1999

***Contact:*** Maurice R. Berry

Shoemaker, J.A., and Magnuson, M.L. Application of solid phase microextraction GC/MS to the characterization of hydrophilic disinfection by-products in water. Presented at: 1999 ASMS Conference, Dallas, TX, June 13-17, 1999.

6/14/1999

***Contact:*** Jody A. Shoemaker

# ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 1999 - Dec 31, 1999**

***Presented Published***

Kauffman, P., and Morgan, J.N. Determination of organophosphate pesticides in composite diet samples. Presented at: AOAC International Meeting, Houston, TX, September 26-30, 1999. 9/27/1999

***Contact:*** Jeffrey N. Morgan

Morgan, J.N., Akinbo, O., Fernando, R., and Pellizzari, E.D. Determination of metals in composite diet samples by ICP-MS. Presented at: AOAC International Meeting, Houston, TX, September 26-30, 1999. 9/27/1999

***Contact:*** Jeffrey N. Morgan

Raymer, J.H., Pellizzari, E.D., and Shoemaker, J.A. Analytical methods for water disinfection by-products in foods and beverages. Presented at: American Chemical Society Meeting, New Orleans, LA, August 22-26, 1999. 8/23/1999

***Contact:*** Jody A. Shoemaker

Raymer, J.H., Pellizzari, E.D., and Shoemaker, J.A. Human exposure to water disinfection by-products via foods and beverages. Presented at: American Chemical Society Meeting, New Orleans, LA, August 22-26, 1999. 8/23/1999

***Contact:*** Jody A. Shoemaker

Rohrer, C., Berry, Jr., M.R., Akland, G.G., Roberds, M., and Pellizzari, E.D. Transfer of pesticides from surfaces to foods for the estimation of dietary exposure of children. Presented at: American Chemical Society Meeting, New Orleans, LA, August 22-26, 1999. 8/23/1999

***Contact:*** Maurice R. Berry

Gallagher, P.A., Schwegel-Brockhoff, C.A., Shoemaker, J.A., Creed, J.T., McKiernan, J.W., and Wei, X. Accelerated solvent extraction of arsenicals in seaweed with ion chromatography separation and ICP-MS detection. Presented at: 217th ACS National Meeting, Anaheim, CA, March 21-25, 1999. 3/22/1999

***Contact:*** Jody A. Shoemaker

Shoemaker, J.A., and Magnuson, M.L. Application of solid phase microextraction GC/MS to the characterization of hydrophilic disinfection by-products in water. Presented at: 1999 ASMS Conference, Dallas, TX, June 13-17, 1999. 6/14/1999

***Contact:*** Jody A. Shoemaker

Krishnamurthy, T., Nair, H., Jabbour, R., Richardson, S.D., Kryak, D.D., Ware, M.W., and Schaefer, III, F.W. Species and genus differentiation of parasites (Giardia and Cryptosporidium) by MALDI - mass spectrometry. Presented at: International Symposium on Waterborne Pathogens, Milwaukee, WI, August 29-September 1, 1999. 8/30/1999

***Contact:*** David D. Kryak

Krishnamurthy, T., Nair, H., Jabbour, R., Richardson, S.D., Kryak, D.D., Ware, M.W., and Schaefer, III, F.W. MALDI-MIS investigations of drinking water pathogens--Giardia and Cryptosporidium. Presented at: 47th ASMS Conference on Mass Spectrometry & Allied Topics, Dallas, TX, June 13-17, 1999. 6/14/1999

***Contact:*** David D. Kryak

Dufour, A.P. Risk and Risk Assessment in Water-Based Recreation. Presented at: WHO Public Health Seminar - Recreational Waters: Risks & Benefits, Rome, Italy, February 19, 1999. 2/19/1999

***Contact:*** Alfred P. Dufour

# ***NERL/MCEARD Publications***

*Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)*

**Jan 1, 1999 - Dec 31, 1999**

***Presented Published***

Vesper, S.J., Haugland, R.A., Dearborn, and Sorenson, W.G. Characterization of *Stachybotrys chartarum* Strains from the Cleveland Pulmonary Hemosiderosis Outbreak. Presented at: 1999 ASM Annual Meeting, Chicago, IL, May 30-June 3, 1999. 1999. 6/1/1999  
*Contact:* Stephen J. Vesper

## ***BOOK CHAPTER***

Morgan, J.N. "Effect of processing on heavy metal content of foods." In: Impact of Food Processing on Food Safety, Chapter 13 Lauren Jackson, Mark Knize and Jeffrey Morgan (Ed.), New York, NY: Plenum Press 459, 195-212. 3/1/1999  
*Contact:* Jeffrey N. Morgan

## ***EPA PROCEED***

Lindquist, H.D.A. Emerging pathogens of concern in drinking water. 6th National Drinking Water and Wastewater Treatment Technology Transfer Workshop, Kansas City, KS. 1999. 8/3/1999  
*Contact:* H. D. Alan Lindquist

Cross, M. Data quality objectives and statistical design support for development of a monitoring protocol for recreational waters. Presented at: Data Quality Objectives, Cincinnati, OH, June 14-16, 1999. 6/14/1999  
*Contact:* Kristen P. Brenner

## ***JOURNAL***

Bennett, J.W., Gauci, M., Lemoenic, S., Schaefer, III, F.W., and Lindquist, H.D.A. A comparison of enumeration techniques for *cryptosporidium parvum* oocysts. Journal of Parasitology 85 (6):1168-1170 (1999). EPA/600/J-00/131. 12/1/1999  
*Contact:* Frank W. Schaefer

Shoemaker, J.A., Munch, J.W., and Behymer, T.D. Evaluation of solid phase microextraction for the analysis of hydrophilic compounds. 1999. Journal of Exposure Analysis and Environmental Epidemiology 9 (3):181-191 (1999). EPA/600/J-03/298. 3/1/1999  
*Contact:* Jody A. Shoemaker

McKiernan, J.W., Creed, J.T., Schwegel, C.A., Caruso, J.A., and Lorenzana, R.M. A comparison of automated and traditional methods for the extraction of arsenicals from fish. Journal of Analytical Atomic Spectrometry 14:607-613 (1999). EPA/600/J-01/009. 10/1/1999  
*Contact:* John T. Creed

Evans, O.M. On-line deoxygenation in reductive (and oxidative) amperometric detection: environmental applications in the liquid chromatography of organic peroxides. Analyst (124):1811-1816 (1999). EPA/600/J-01/030. 12/31/1999  
*Contact:* Otis M. Evans

Haugland, R.A., Vesper, S.J., and Wymer, L.J. Quantitative measurement of *Stachybotrys chartarum* Conidia using real time detection of PCR products with the TaqMan fluorogenic probe system. Molecular and Cellular Probes 13 (5):329-340 (1999). EPA/600/J-01/032. 10/1/1999  
*Contact:* Richard A. Haugland

# ***NERL/MCEARD Publications***

***Technical Information Manager: Angela Moore (513) 569-7341 or E-mail [moore.angela@epa.gov](mailto:moore.angela@epa.gov)***

**Jan 1, 1999 - Dec 31, 1999**

***Presented Published***

Aronson, T.W., Holtzman, A.E., Glover, N., Boian, M.G., Froman, S., Berlin, O.G.W., Hill, H., and Stelma, Jr., G.N. Comparison of large restriction fragments of mycobacterium avium isolates recovered from AIDS and Non-AIDS patients with those of isolates from potable water. Journal of Clinical Microbiology 37 (4):1008-1012 (1999).

4/1/1999

***Contact:*** Gerard N. Stelma

Covert, T.C., Rodgers, M.R., Reyes, A.L., and Stelma, Jr., G.N. Occurrence of nontuberculous mycobacteria in environmental samples. Applied and Environmental Microbiology 65 (6):2492-2496 (1999). EPA/600/J-03/105.

6/1/1999

***Contact:*** Terry C. Covert

Haugland, R.A., Heckman, J.L., and Wymer, L.J. Evaluation of different methods for the extraction of DNA from fungal conidia by quantitative competitive PCR analysis. Journal of Microbiological Methods 37 (2):165-176 (1999). EPA/600/J-03/100.

8/1/1999

***Contact:*** Richard A. Haugland

## ***SYMPOS/CONF***

Hester, J.D., Lindquist, H.D.A., Bobst, A.M., and Schaefer, III, F.W. A novel detection method for Encephalitozoon hellem in water. Presented at: International Symposium of Waterborne Pathogens, Milwaukee, WI, August 29-September 1, 1999.

8/30/1999

***Contact:*** Frank W. Schaefer

Rodgers, M.R., Shadix, L., and Feige, M.A. Occurrence of aeromonas bacteria in potable waters. Presented at: International Symposium of Waterborne Pathogens, Milwaukee, WI, August 29-September 1, 1999.

8/30/1999

***Contact:*** Mark R. Rodgers